

IN THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A method for scheduling radio resource management (RRM) procedures on a radio link by coordinating RRM algorithms in a wireless communication system, comprising the steps of:

- (a) receiving at least one trigger;
 - (b) evaluating the at least one trigger;
 - (c) selecting RRM ~~procedures~~ algorithms to execute, based upon the evaluation of the at least one trigger;
 - (d) executing the selected RRM ~~procedures~~ algorithms;
 - (e) analyzing the results of the selected RRM ~~procedures~~ algorithms to determine their outcomes;
 - (f) choosing a subset of the selected RRM ~~procedures~~ algorithms, based upon their outcomes, to determine an optimal set of results, the choosing being based on the analysis of the results; and
 - (g) executing the subset of selected RRM ~~procedures~~ algorithms;
- and

(h) placing the radio link into a busy state for the duration of the algorithm's execution whereby all other RRM algorithms are denied access to the radio link until completion of the algorithm.

2. (Currently Amended) The method according to claim 1, wherein step (g) includes the steps of:

placing a radio link into a busy state, whereby the radio link is accessible only by the currently executing RRM ~~procedures~~ algorithms;

performing the RRM ~~procedures~~ algorithms on the radio link;

preparing a set of predicted measurements for use by the other RRM procedures in the subset; and

placing the radio link into an idle state, whereby the radio link is accessible by any RRM procedure.

3. (Original) The method according to claim 2, wherein the performing step includes configuring a radio link.

4. (Original) The method according to claim 2, wherein the performing step includes reconfiguring an existing radio link.

5. (Currently Amended) The method according to claim 2, wherein if the RRM ~~procedures~~ algorithms to be performed ~~needs~~ need access to a radio link that is in the busy state, then performing the steps of:

setting a flag associated with the RRM ~~procedures~~ algorithms to indicate a pending state; and

queuing the RRM ~~procedures~~ algorithms to be performed at a later time.

6. (Currently Amended) The method according to claim 5, wherein any queued RRM ~~procedures~~ algorithms are performed when the radio link is in the idle state.

7. (Original) The method according to claim 2, wherein the set of predicted measurements is stored in a centralized database.

8. (Currently Amended) The method according to claim 1, further comprising the step of ordering the subset of RRM ~~procedures~~ algorithms, the ordering step being performed before step (g).

9. (Currently Amended) A method for scheduling radio resource management (RRM) procedures by coordinating RRM algorithms in a wireless communication system, comprising the steps of:

receiving at least one trigger, each trigger being associated with at least one RRM ~~procedure~~ algorithm;

placing a radio link into a busy state, ~~whereby the radio link is accessible only by a currently executing RRM procedure~~ for the duration of the algorithm's execution, whereby all other RRM algorithms are denied access to the radio link until the completion of the algorithm;

performing the RRM ~~procedure~~ algorithm on the radio link;

preparing a set of predicted measurements ~~based on a result of the RRM procedure performed on the radio link, the predicted measurements being available~~ for use by the other RRM procedures; and

placing the radio link into an idle state, whereby the radio link is accessible by any RRM procedure.

10. (Original) The method according to claim 9, wherein the performing step includes configuring a radio link.

11. (Original) The method according to claim 9, wherein the performing step includes reconfiguring an existing radio link.

12. (Currently Amended) The method according to claim 9, wherein if the RRM ~~procedure~~ algorithm to be performed needs access to a radio link that is in the busy state, then performing the steps of:

setting a flag associated with the RRM ~~procedure~~ algorithm to indicate a pending state; and

queuing the RRM ~~procedure~~ algorithm to be performed at a later time.

13. (Currently Amended) The method according to claim 12, wherein any queued RRM ~~procedure~~ algorithm are performed when the radio link is in the idle state.

14. (Original) The method according to claim 9, wherein the set of predicted measurements is stored in a centralized database.